

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	754	mukai.in.	USPAT
2	BRS	L2	2145	ryoichi.in.	USPAT
3	BRS	L3	21	1 near2 2	USPAT
4	BRS	L4	11831	grain near5 boundar\$3	USPAT
5	BRS	L5	214	cr near10 4	USPAT
6	BRS	L6	8194	copt or cow or co-pt or co-w or cocrpt or co-cr-pt or coptcr or co-pt-cr or cocrw or co-cr-w or cowcr or co-w-cr	USPAT
7	BRS	L7	23795	magnetic adj recording	USPAT
8	BRS	L8	53	5 and 7	USPAT
9	BRS	L9	37	6 and 8	USPAT
10	BRS	L10	9418	grain near5 boundar\$3	EPO; JPO; DERW ENT; IBM TDB
11	BRS	L11	240	cr near10 10	EPO; JPO; DERW ENT; IBM TDB
12	BRS	L12	6713	copt or cow or co-pt or co-w or cocrpt or co-cr-pt or coptcr or co-pt-cr or cocrw or co-cr-w or cowcr or co-w-cr	EPO; JPO; DERW ENT; IBM TDB
13	BRS	L13	94240	magnetic adj recording	EPO; JPO; DERW ENT; IBM TDB
14	BRS	L14	1	11 and 12 and 13	EPO; JPO; DERW ENT; IBM TDB

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	0	spindle adj motoe	USPAT
2	BRS	L2	9283	spindle adj motor	USPAT
3	BRS	L3	17980	spindle near4 motor	USPAT
4	BRS	L4	50535 5	head	USPAT
5	BRS	L5	14391 3	actuator	USPAT
6	BRS	L6	4546	3 and 4 and 5	USPAT
7	BRS	L7	10907	magnetic adj recording adj (medium media disk disc)	USPAT
8	BRS	L8	495	6 and 7	USPAT
9	BRS	L9	38900	(disk disc) adj drive	USPAT
10	BRS	L10	15037 44	conventional	USPAT
11	BRS	L11	20435	5 same 10	USPAT
12	BRS	L12	109	8 and 11	USPAT
13	BRS	L13	16428	"0 V" or "0V" or "0v" or "0 v"	USPAT
14	BRS	L14	56425	sputtering	USPAT
15	BRS	L15	1166	13 and 14	USPAT
16	BRS	L16	1075	substrate and 15	USPAT
17	BRS	L17	34	7 and 16	USPAT
18	BRS	L18	36466	bias adj voltage	USPAT
19	BRS	L19	3342	14 and 18	USPAT
20	BRS	L20	162	7 and 19	USPAT

DOCUMENT-IDENTIFIER: US 6242086 B1

TITLE: High coercivity, low noise magnetic recording medium comprising an intermediate cocrtaox layer

----- KWIC -----

BSPR:

Lee et al. subsequently reported that the coercivity of a magnetic recording medium comprising a NiAl underlayer can be significantly enhanced by depositing a plurality of underlayers containing alternative NiAl and Cr layers rather than a single NiAl underlayer. Li-Lien Lee et al., "Effects of Cr Intermediate Layers on CoCrPt Thin Film Media on NiAl Underlayers," Vol. 31, No. 6, November 1995, pp. 2728-2730.

BSPR:

Conventional practices in manufacturing magnetic recording media comprise DC magnetron sputtering and high temperatures in order to obtain Cr segregation in Co-alloy grain boundaries to achieve high H_r and high SNR. Conventional practices, therefore, employ a high substrate heating temperature, e.g. above about 200.degree. C., e.g. about 230.degree. C. to about 260+ C., in order to achieve a desirably high H_r. However, such high substrate heating temperatures result in a reduced S* and, hence, increased medium noise.

ORPL:

"Effects of Cr Intermediate Layers on CoCrPt Thin Film Media on NiAl Underlayers", L. Lee, et al., IEEE Transactions On Magnetics, vol. 31, No. 6, Nov. 1995, pp. 2728-2730.